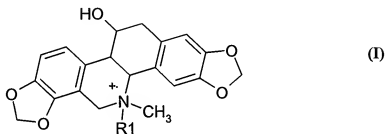


LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-25 (Cancelled)

26. (Currently Amended) A process for the manufacture of ~~an alkaloid reaction product comprising a chelidonine derivative~~ reaction product having a quaternary nitrogen according to formula (I)



the process comprising:

- a) providing a reaction mixture comprising an organic solvent, an alkaloid which is chelidonine, and an alkylating agent, and carrying out an alkylation reaction by reacting the chelidonine with the alkylating agent in the presence of the organic solvent, so as to form a chelidonine derivative reaction product having a quaternary nitrogen;
- b) after termination of the alkylation reaction, subjecting the resulting reaction mixture to at least one washing step with an aqueous solvent or water, to remove water-soluble compounds present in the reaction mixture; and
- c) subjecting the washed reaction mixture to a treatment with a strong acid in gaseous or liquid form, thereby converting the quaternary chelidonine ~~derivative~~ reaction product in the reaction mixture into a water soluble form.

27. (Cancelled)

28. (Previously Presented) The process according to claim 26, wherein in step c) the washed reaction mixture is subjected to a treatment with gaseous hydrogen chloride or a hydrogen chloride solution.

29. (Currently Amended) The process according to claim 26, wherein in step c) the quaternary chelidonine derivative reaction product is converted into a water-soluble salt.

30. (Currently Amended) The process according to claim 26, wherein in step c) [[a]] the reaction product precipitates during or after the treatment with acid, whereafter the precipitate is separated from the organic solvent, and optionally further purified using organic solvents.

31. (Previously Presented) The process according to claim 26, wherein the alkylation reaction is carried out at elevated temperature.

32. (Previously Presented) The process according to claim 31, wherein the alkylation reaction is carried out at the boiling point of the solvent.

33. (Canceled)

34. (Cancelled)

35. (Previously Presented) The process according to claim 26, wherein the alkylating agent is a physiologically active agent.

36. (Previously Presented) The process according to claim 35, wherein the alkylating agent is a cytotoxic agent.

37. (Previously Presented) The process according to claim 26, wherein the alkylating agent is water-soluble or decomposes into water-soluble components upon contact with water.

38. (Previously Presented) The process according to claim 26, wherein the organic solvent is selected from the group consisting of monochloromethane, dichloromethane, trichloromethane, monochloroethane, dichloroethane and trichloroethane.

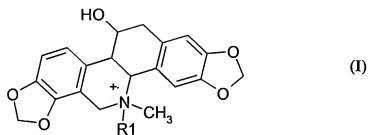
39. (Previously Presented) The process according to claim 26, wherein the alkylating agent is tris(1-aziridinyl)phosphine sulphide (CAS 52-24-4).

40. (Currently Amended) The process according to claim 26, wherein said chelidonine ~~derivative~~ reaction product has a quaternary nitrogen atom to which, as a fourth ligand, a hydrogen residue or a residue originating from the alkylating agent is bound.

41. (Previously Presented) The process according to claim 40, wherein the residue is selected from the group consisting of a methyl, an ethyl and a tris(1-aziridinyl)phosphine sulphide residue.

42. (Currently Amended) The process according to claim 26, wherein said chelidonine ~~derivative~~ reaction product has a quaternary nitrogen atom and, as a fourth ligand of said nitrogen, a decomposition product formed due to the treatment with acid.

43. (Currently Amended) An alkaloid reaction product comprising a chelidonine ~~derivative~~ reaction product having a quaternary nitrogen according to formula (I)



wherein the chelidonine ~~derivative~~ reaction product is present in water-soluble form and wherein the alkaloid reaction ~~process~~ product is useful as a drug or medicament.

44. (Cancelled)

45. (Currently Amended) The alkaloid reaction product according to claim 43, obtained by a process comprising:

a) providing a reaction mixture comprising an organic solvent, an alkaloid which is chelidonine, and an alkylating agent, and carrying out an alkylation reaction by reacting the

chelidonine with the alkylating agent in the presence of the organic solvent, so as to form a chelidonine derivative reaction product having a quaternary nitrogen;

b) after termination of the alkylation reaction, subjecting the resulting reaction mixture to at least one washing step with an aqueous solvent or water, to remove water-soluble compounds present in the reaction mixture; and

c) subjecting the washed reaction mixture to a treatment with a strong acid in gaseous or liquid form, thereby converting the quaternary chelidonine derivative reaction product in the reaction mixture into a water soluble form

46. (Previously Presented) The alkaloid reaction product according to claim 45, obtained through reaction of chelidonine with an alkylating agent, wherein in the product an initially tertiary nitrogen is present in quaternary form to which, as a fourth ligand, a hydrogen residue or a residue originating from the alkylating agent is bound.

47. (Previously Presented) The alkaloid reaction product according to claim 46, wherein the residue is selected from the group consisting of a methyl, an ethyl, and tris(1-aziridinyl)phosphine sulphide residue, or from tris(1-aziridinyl)phosphine sulphide.

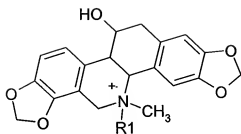
48. (Currently Amended) The alkaloid reaction product according to claim 45, wherein the chelidonine derivative reaction product is present in the form of a water-soluble salt.

49. (Currently Amended) The alkaloid reaction product according to claim 48, wherein the chelidonine derivative reaction product is present in the form of a hydrochloride.

50. (Cancelled)

51. (Previously Presented) The alkaloid reaction product according to claim 45, wherein the product further comprises at least one compound selected from the group consisting of unreacted tertiary chelidonine, unreacted alkylating agent, and decomposition products of the alkylating agent.

52. (Currently Amended) A chelidonine derivative reaction product, wherein [[the]] naturally occurring chelidonine is present in a quaternated form according to formula (I),



wherein as a fourth ligand R1 to the quaternary nitrogen a hydrogen or a methyl or ethyl residue is present, wherein the derivative reaction product is present in water-soluble form and is useful as a drug or a medicament.

53. (Cancelled)

54. (Currently Amended) The chelidonine derivative reaction product according to claim 52 in the form of a salt of a strong acid.

55. (Currently Amended) The chelidonine derivative reaction product according to claim 52 in the form of a hydrochloride.

56. (Cancelled)

57. (Currently Amended) A method of manufacture of a pharmaceutical composition for the treatment of a disease or bodily condition selected from the group consisting of ~~viral infection~~, cancer, ~~immunological dysfunction~~, ~~metabolic dysfunction~~ ~~osteoporosis~~ and radiation damage, wherein the method comprises adding to said composition an alkaloid reaction product as defined in any one of claims 43, 45-49 and 51.

58. (Cancelled)

59. (Cancelled)

60. (Cancelled)

61. (Currently Amended) A method of manufacture of a pharmaceutical composition for the treatment of a disease or bodily condition selected from the group consisting of ~~viral infection, cancer, immunological dysfunction, metabolic dysfunction~~ osteoporosis and radiation damage, wherein the method comprises the addition of the chelidonine ~~derivative~~ reaction product of claim 52 to said composition.

62. (Cancelled)